itle: "Methods for Classifying Samples

iventors: Todd R. Golub, et al.

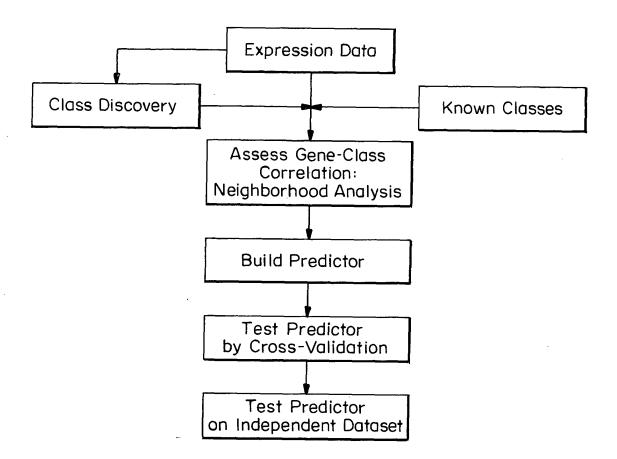
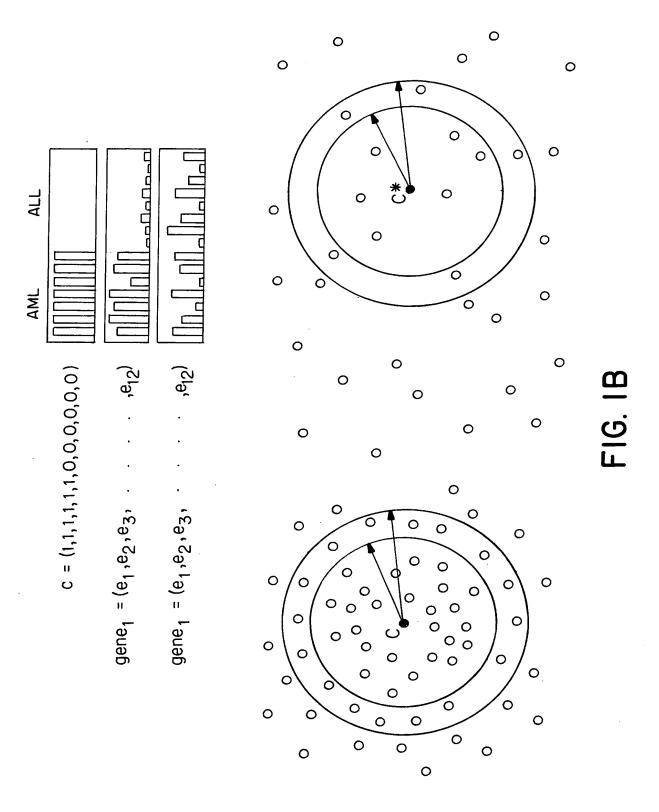


FIG. IA

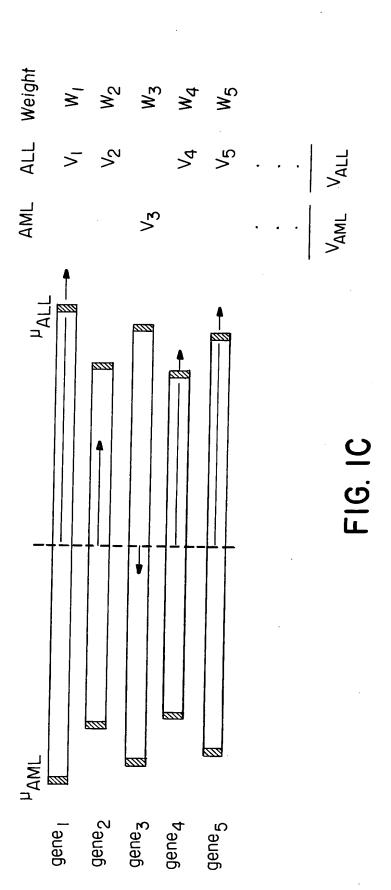
tle: "Methods for Classifying Samples.

inventors: Todd R. Golub, et al.



App No.: 10/074,789

Title: "Methods for Classifying Sample Inventors: Todd R. Golub, *et al*.



Methods for Classifying Samples ..."
Inventors: Todd R. Golub, et al.

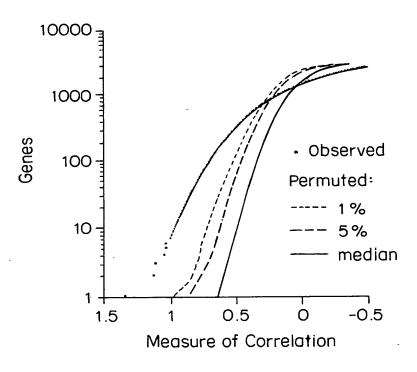


FIG. 2A

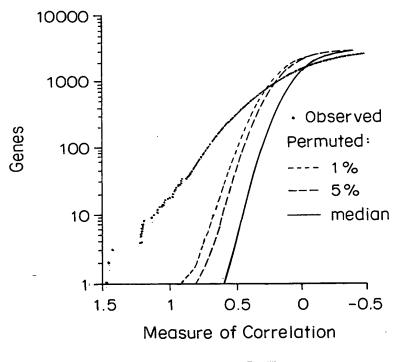


FIG. 2B

App No.: 10/074,789
Title: "Methods for Classifying Sampl Inventors: Todd R. Golub, *et al.*

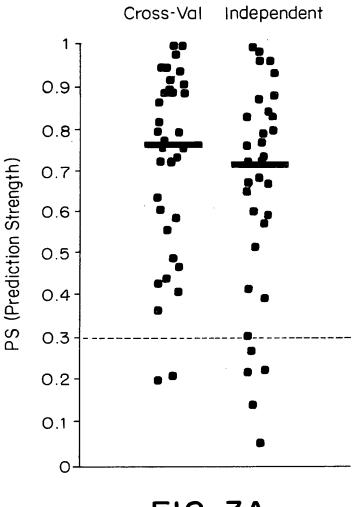


FIG. 3A

Title: "Methods for Classifying Samples

nventors: Todd R. Golub, et al.

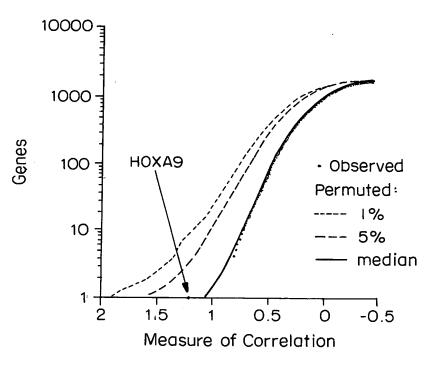


FIG. 4A

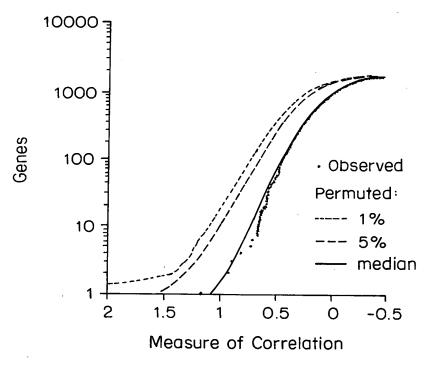
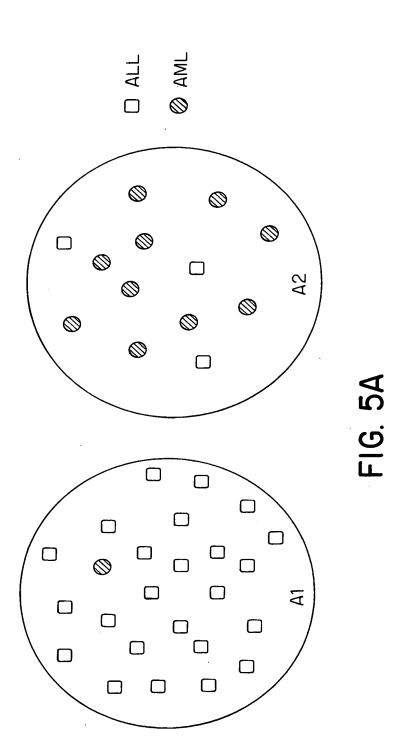


FIG. 4B

10/074,789

App No.: 10/074,789
Title: "Methods for Classifying Samples"

Todd R. Golub, et al. Inventors:



Title: "Methods for Classifying Samp

Inventors: Todd R. Golub, et al.



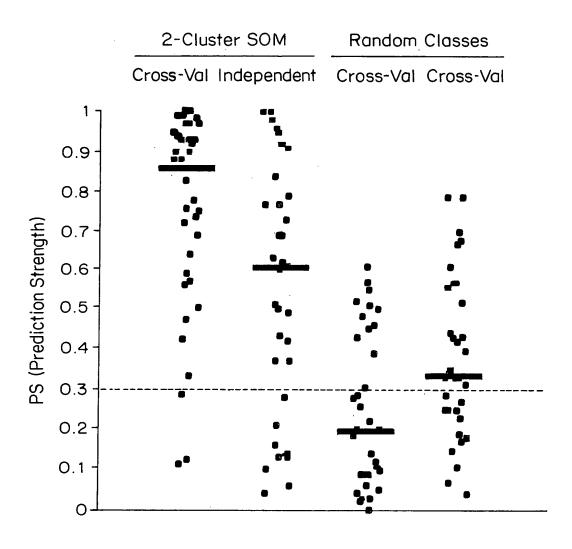


FIG. 5B

10/074,789 App No.:

"Methods for Classifying Samples ... ors: Todd R. Golub, *et al*.

inventors:

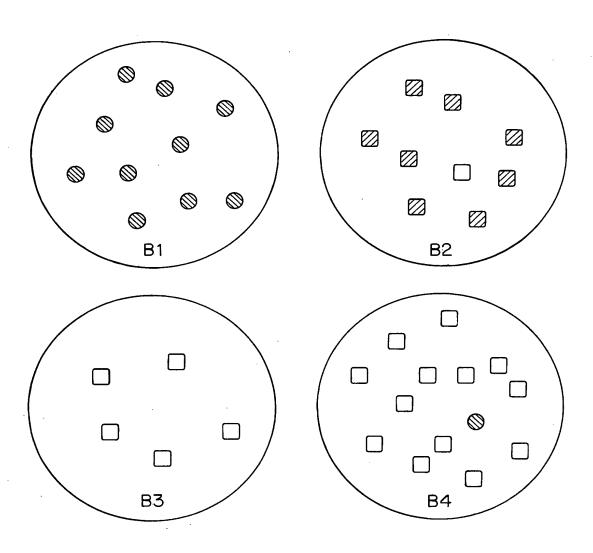


FIG. 5C

10/074,789

App No.: 10/074,789
Title: "Methods for Classifying Sample Todd R. Golub, et al. Inventors:

B2/B4 B3/B4 B1/B4 B2/B3 B1/B2 B1/B3

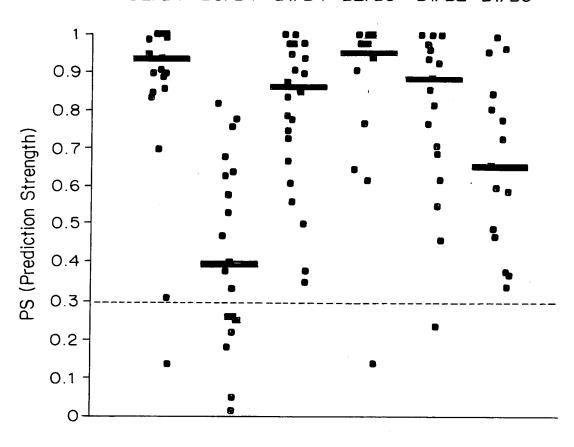


FIG. 5D

tle: "Methods for Classifying Samples."

Inventors: Todd R. Golub, et al.

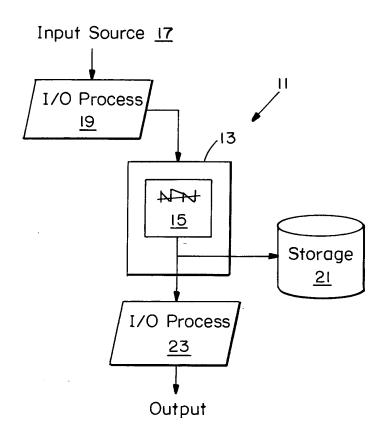


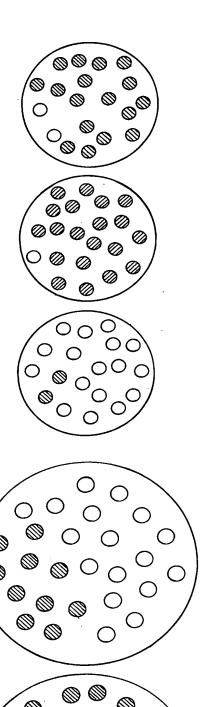
FIG. 6

App No.:

10/074,789

Title: "Methods for Classifying Sample

Inventors: Todd R. Golub, et al.



O Follicular

(), () Large B-Cell

Discovered Classes:

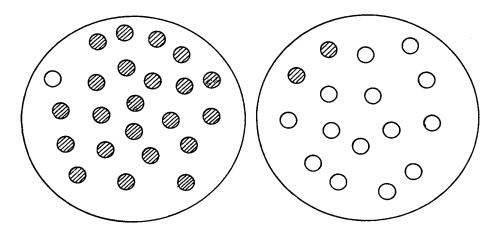
App No.:

10/074,789

Title: "Methods for Classifying Sample Inventors:

Todd R. Golub, et al.

Discovered Classes:



Medulloblastoma

O Glioma

FIG. 8

Title: "Methods for Classifying Sampl Inventors: Todd R. Golub, et al.

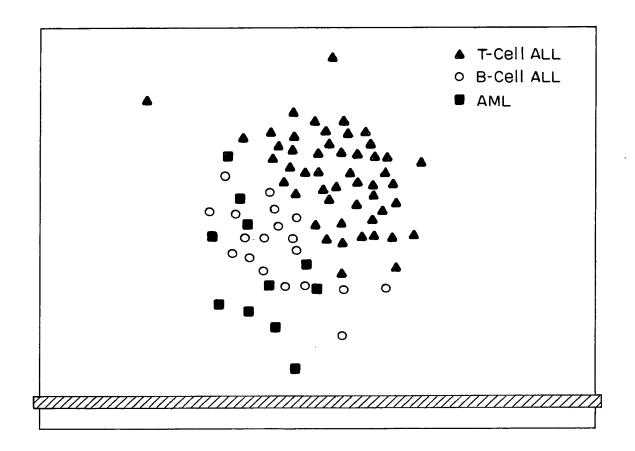
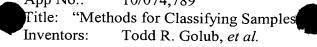
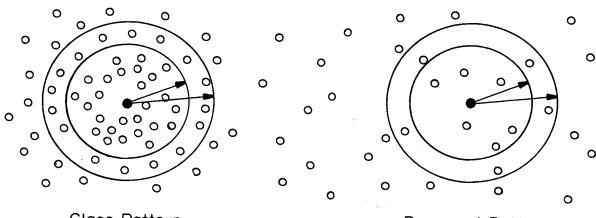


FIG. 9





Class Pattern Neighborhood

FIG. IIA

Permuted Pattern Neighborhood

FIG. IIB

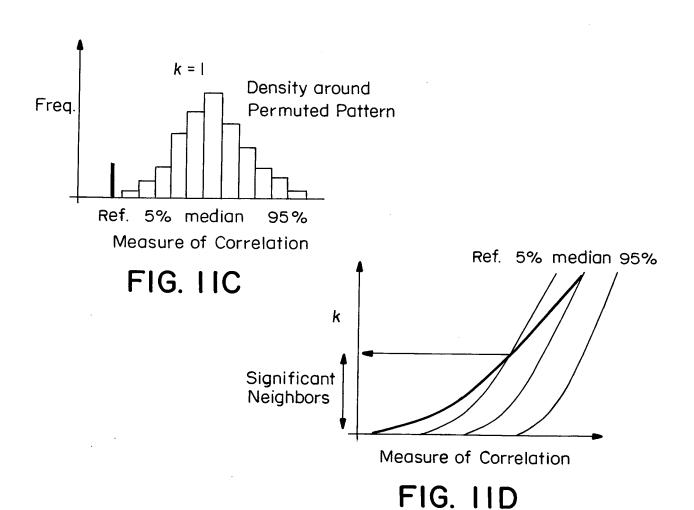


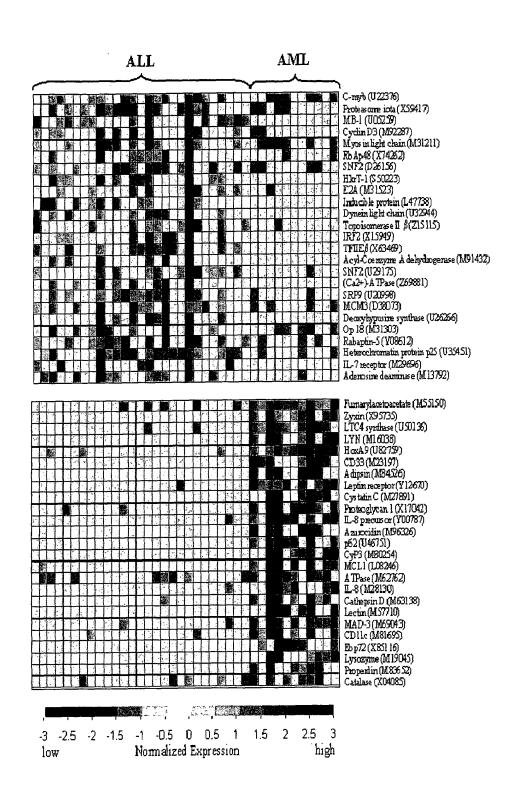
FIG. 10

Hierarchy
y of
_
⊒.
Problems in Molecular Class
Class
s Prediction

				l	
Problem:	Difficulty:	Gene Markers:	Error:	m	Example:
I. Tissue or Cell Type	Low	~1000-2000	~0%	Normal	vs. Renal Carcinoma
Normal vs. Abnormal					
II. Morphological	Low-medium	~200-500	~0-5%	Leukemia ALL	vs. AML
Type					
III. Morphological	Medium-high	~50-100	~0-15%	ALL B-	vs. T-Cell
Subtype					
IV. Treatment Outcome	High	~1-20	~5-50%	AML Trea	AML Treatment Outcome
Drug Sensitivity					

tle: "Methods for Classifying Samples ...

Inventors: Todd R. Golub, et al.



No.: 10/074,789 e: "Methods for Classifying Samples ..." Inventors: Todd R. Golub, et al.

CLASS PREDICTION RESULTS

Problem Type	Biological System	Problem Distinction	Number of samples	Number of Number of samples errors	Number of no calls	Number of errors (all calls)	Number of gene markers
	Renal	Normal v. Carcinoma	12	(%0) 0	0	(%0) 0	>100
II	Leukemia	ALL vs AML	35	(%0) 0	2	0 (0%)	700
ш	Leukemia	ALL B v. T-Cell	33	0 (0%)	1	1 (3%)	200
IV	Leukemia	Treatment	15	2 (13%)	0	2 (13%)	1
		Outcome					